

Title (en)

METHOD AND DEVICE FOR PREPARING A DENTAL IMPLANT BY IMMERSION IN A MESENCHYMAL CELL CULTURE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR VORBEREITUNG EINES ZAHNIMPLANTATS DURCH EINTAUCHEN IN EINE MESENCHYMALE ZELLKULTUR

Title (fr)

PROCEDE ET DISPOSITIF DE PREPARATION D'UN IMPLANT DENTAIRE PAR IMMERSION DANS UNE CULTURE DE CELLULES MESENCHYMATEUSES

Publication

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Application

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Abstract (en)

[origin: US2001055745A1] The present invention concerns a method of manufacturing a dental implant comprising: preparing an implant composed of a root portion and a crown portion and constituted by an inert biocompatible material in a shape which is adapted to an extracted tooth; immersing the root portion of said implant into a culture of undifferentiated mesenchymal cells in a culture medium the composition of which allows differentiation into cementoblasts and fibroblasts, over a period which is sufficient for said differentiation and for adhesion of cementoblasts to the root portion and the formation of a first layer of cementum and an alveolodental ligament primordium attached to said cementum; recovering the implant carrying differentiated tissues affixed to its root portion.

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IPC 8 full level

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